

COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT COOPERATION TREATY APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

PROCESSES FOR PRODUCING SUGAR NUCLEOTIDES AND COMPLEX CARBOHYDRATES

the specification of which was filed as PCT international application No. PCT/JP97/03226 on September 12, 1997 and was amended under PCT Article 19 on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35 U.S.C. §119(a)-(d) or §365(b), of any foreign application(s) for patent or inventor's certificate, or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate, or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) on which priority is claimed:

Country	Pat. Application No.	Filed (Day/Mo./Yr.)	(Yes/No) Priority Claimed
Japan	244451/1996	17/September/1996	Japan
Japan	285066/1996	28/October/1996	Japan

I hereby appoint Joseph M. Fitzpatrick (Registration No. 17,398), Lawrence F. Scinto (Registration No. 18,973), William J. Brunst (Registration No. 20,452), Robert L. Baechtold (Registration No. 20,860), John A. O'Brien (Registration No. 24,367), John A. Krause (Registration No. 24,613), Henry J. Reak (Registration No. 25,499), Peter Saxon (Registration No. 26,942), Anthony M. Zupcic (Registration No. 27,276), Charles P. Baker (Registration No. 26,702), Steven J. Bosses (Registration No. 22,221), Edward B. Vassallo (Registration No. 29,117), Ronald A. Clayton (Registration No. 26,718), Lawrence A. Stahl (Registration No. 30,110), Laura A. Bauer (Registration No. 29,767), Leonard P. Diana (Registration No. 29,286), David M. Quinlan (Registration No. 26,641), Nicholas N. Kallas (Registration No. 31,530), William M. Wannisky (Registration No. 28,373), Lawrence S. Perry (Registration No. 31,865), Robert H. Fischer (Registration No. 30,051), Christopher Philip Wrist (Registration No. 32,078), Gary M. Jacobs (Registration No. 28,861), Michael K. O'Neill (Registration No. 32,622), Bruce C. Haas (Registration No. 32,734), Scott K. Reed (Registration No. 32,433), Scott D. Malpeda (Registration No. 32,593), Fredrick M. Zullo (Registration No. 32,452), Richard P. Bauer (Registration No. 31,588), Warren E. Olsen (Registration No. 27,290), Abigail F. Cousins (Registration No. 29,292), Steven E. Warner (Registration No. 33,326), Thomas J. O'Connell (Registration No. 33,202), David L. Schaeffer (Registration No. 32,716), Jack S. Cubert (Registration No. 24,245), Mark A. Williamson (Registration No. 33,628), Jean K. Dudak (Registration No. 30,938), Raymond R. Mandra (Registration No. 34,382), Dominick A. Conde (Registration No. 33,856), Pasquale A. Razzano (Reg. No. 25,512), John W. Behringer (Registration No. 23,086), Robert C. Kline (Registration No. 17,739), Mark J. Itri (Registration No. 36,171), Michael P. Sandomato (Registration No. 35,345), Jack M. Arnold (Registration No. 25,823), John D. Carlin (Registration No. 37,292), Daniel S. Olueck (Registration No. 37,838), Joseph W. Ragusa (Registration No. 38,586), Brian L. Klock (Registration No. 36,570), Anne M. Maher (Registration No. 38,231), William J. Zak, Jr. (Registration No. 38,668), Thomas D. Pease (Registration No. 35,317), Bruce M. Wexler (Registration No. 35,409), Robert S. Mayer (Registration No. 38,544), Errol B. Taylor (Registration No. 39,853), Matthew J. Golden (Registration No. 35,161), Sean W. O'Brian (Registration No. 37,689), Dolores A. Moro-Grosmann (Registration No. 33,972), T. Thomas Gellenthien (Registration No. 39,683), Douglas Sharrott (Registration No. 39,832), Gordon F. Sieckmann (Registration No. 28,667), Jay H. Anderson (Registration No. 38,371), Nandu A. Talwalkar (Registration No. 41,339), Paul A. Pysher (Registration No. 40,780), Joseph G. Swan (Registration No. 41,338), Kenneth Crimaldi (Registration No. 40,968), Shu Muk Lee (Registration No. 41,147), Kathryn Sieburth (Registration No. 40,072), Lee A. Goldberg (Registration No. 38,894), and Leise M. Smith (Registration No. 39,378) my attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

70

COMBINED DECLARATION AND POWER OF ATTORNEY
FOR PATENT APPLICATION

(Page 2)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sole or First Inventor ¹⁻⁰⁰ Satoshi Koizumi
Inventor's signature Satoshi Koizumi
Date May 11, 1998 Citizen/Subject of Japan
Residence Tokyo, Japan JPX
Post Office Address 3-9-10, Naka-machi, Machida-shi, Tokyo 194-0021 Japan

Full Name of Second Joint Inventor, if any ²⁻⁰⁰ Katsutoshi Sasaki
Second Inventor's signature Katsutoshi Sasaki
Date May 11, 1998 Citizen/Subject of Japan JPX
Residence Tokyo, Japan
Post Office Address 1171-3-201, Honmachida, Machida-shi, Tokyo 194-0032 Japan

Full Name of Third Joint Inventor, if any ³⁻⁰⁰ Tetsuo Endo
Third Inventor's signature Tetsuo Endo
Date May 11, 1998 Citizen/Subject of Japan JPX
Residence Tokyo, Japan
Post Office Address 4-17-17, Morino, Machida-shi, Tokyo 194-0022 Japan

Full Name of Fourth Joint Inventor, if any ⁴⁻⁰⁰ Kazuhiko Tabata
Fourth Inventor's signature Kazuhiko Tabata
Date May 11, 1998 Citizen/Subject of Japan JPX
Residence Tokyo, Japan
Post Office Address 4-17-9, Morino, Machida-shi, Tokyo 194-0022 Japan

Full Name of Fifth Joint Inventor, if any ⁵⁻⁰⁰ Akio Ozaki
Fifth Inventor's signature Akio Ozaki
Date May 11, 1998 Citizen/Subject of Japan JPX
Residence Tokyo, Japan
Post Office Address 3-9-13, Naka-machi, Machida-shi, Tokyo 194-0021 Japan

Full Name of Sixth Joint Inventor, if any _____
Sixth Inventor's signature _____
Date _____ Citizen/Subject of _____
Residence _____
Post Office Address _____

Full Name of Seventh Joint Inventor, if any _____
Seventh Inventor's signature _____
Date _____ Citizen/Subject of _____
Residence _____
Post Office Address _____